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10/722,263

=> e biosis medline caplus wpids uspatfull
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*** YOU HAVE NEW MAIL ***

=> s particle and pamam
L1 272 PARTICLE AND PAMAM

=> s l1 and helical protein
L2 0 L1 AND HELICAL PROTEIN

=> s l1 and cytokine
L3 29 L1 AND CYTOKINE

=> s l3 and dendrimer
L4 23 L3 AND DENDRIMER

=> dup rem l4
PROCESSING COMPLETED FOR L4
L5 22 DUP REM L4 (1 DUPLICATE REMOVED)

=> s l5 and aldehyde
L6 9 L5 AND ALDEHYDE

=> s l6 and oxiamine
L7 3 L6 AND OXIAMINE

=> d l7 bib abs 1-3

L7 ANSWER 1 OF 3 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN
AN 2004-542612 [52] WPIDS
CR 2003-274434 [27]; 2004-118821 [12]
DNC C2004-199079
TI Conjugate useful in pharmaceutical composition comprises synthetic
particle attached to N-terminal of a protein.
DC A23 A96 B04
IN LEE, S C; PARTHASARATHY, R V
PA (SEAR) SEARLE & CO G D
CYC 1
PI US 2004131584 A1 20040708 (200452)* 11
ADT US 2004131584 A1 Provisional US 1999-129105P 19990413, Cont of US
2000-547008 20000411, Div ex US 2001-982765 20011018, US 2003-722263

20031125

FDT US 2004131584 A1 Cont of US 6485718, Div ex US 6682727
PRAI US 1999-129105P 19990413; US 2000-547008 20000411;
US 2001-982765 20011018; US 2003-722263 20031125

AN 2004-542612 [52] WPIDS

CR 2003-274434 [27]; 2004-118821 [12]

AB US2004131584 A UPAB: 20040813

NOVELTY - A homogeneous conjugate comprises a synthetic **particle** attached to N-terminal of a protein.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for site specifically attaching a synthetic **particle** to the N-terminus of a protein involving either:

(1) attaching a spacer on the N-terminus of a protein; forming a sulfhydryl on a synthetic **particle** at amine; and combining the sulfhydrylized synthetic **particle** to the spacer on the protein; or

(2) converting a ser-terminate protein to an **aldehyde**; converting amine of a synthetic **particle** to a **oxiamine**; and combining the **aldehyde** ser-terminated protein to the synthetic **particle** at the **oxiamine**.

ACTIVITY - None given.

MECHANISM OF ACTION - None given.

USE - In pharmaceutical composition (claimed).

ADVANTAGE - The **PAMAM** dendrimers are covalently fixed and robust compared to the dynamic equilibrating nature of the micelles.
Dwg.0/0

L7 ANSWER 2 OF 3 USPATFULL on STN

AN 2002:329519 USPATFULL

TI Site specific ligation of proteins to synthetic particles

IN Lee, Stephen C., Dublin, OH, UNITED STATES

PI US 2002187198 A1 20021212

US 6682727 B2 20040127

AI US 2001-982765 A1 20011018 (9)

RLI Continuation of Ser. No. US 2000-547008, filed on 11 Apr 2000, PENDING

PRAI US 1999-129105P 19990413 (60)

DT Utility

FS APPLICATION

LREP Pharmacia Corp., Patent Dept., Mail Zone 04E, 800 N. Lindbergh Blvd.,
St. Louis, MO, 63167

CLMN Number of Claims: 16

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 441

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to site-specific conjugation of synthetic particles to proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 3 OF 3 USPATFULL on STN

AN 2002:310625 USPATFULL

TI Site specific ligation of proteins to synthetic particles

IN Parthasarathy, Rajani V., Woodbury, MN, United States

Lee, Stephen C., Creve Coeur, MO, United States

PA Pharmacia Corporation, St. Louis, MO, United States (U.S. corporation)

PI US 6485718 B1 20021126

AI US 2000-547008 20000411 (9)

PRAI US 1999-129105P 19990413 (60)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Riley, Jezia

LREP Scrivner, Alan L., Polster, Rachel A.

CLMN Number of Claims: 1

ECL Exemplary Claim: 1

DRWN 5 Drawing Figure(s); 3 Drawing Page(s)

LN.CNT 387

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to site-specific conjugation of synthetic
 particles to proteins.
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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